

Based on Form PTO-1449
(3/90)



ATTY. DOCKET NO.

KM40561-50

SERIAL NO.

08/611,804

LIST OF REFERENCES CITED BY APPLICANT
(Use several sheets if necessary)

APPLICANT

Wohlstadter

FILING DATE

3/06/96

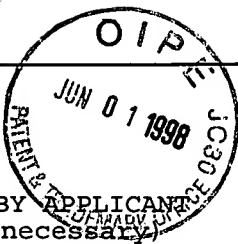
GROUP.

1648

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>u</i>	AA	4,280,815	07/28/81	Oberhardt et al.			
	AB	4,652,333	3/24/87	Carney			
	AC	4,663,230	5/5/87	Tennent			
	AD	4,826,759	5/2/89	Guire et al.			
	AE	4,891,321	1/2/90	Hubscher			
	AF	5,061,445	10/29/91	Zoski et al.			
	AG	5,068,088	11/26/91	Hall et al.			
	AH	5,093,268	3/3/92	Leventis et al.			
	AI	5,098,771	3/24/92	Friend			
	AJ	5,110,693	5/5/92	Friend et al.			
	AK	5,124,075	6/23/92	Yasada et al.			
	AL	5,147,806	9/15/92	Kamin et al.			
	AM	5,165,909	11/24/92	Tennent et al.			
	AN	5,171,560	12/15/92	Tennent			
	AO	5,189,549	2/23/93	Leventis et al.			
	AP	5,194,133	3/16/93	Cluck et al.			
	AQ	5,221,605	6/22/93	Bard et al.			
	AR	5,238,808	8/24/93	Bard et al.			
	AS	5,240,863	8/31/93	Shibue et al.			
	AT	5,247,243	9/21/93	Hall et al.			
	AU	5,296,191	3/22/94	Hall et al.			
	AV	5,304,326	4/19/94	Goto et al.			
	AW	5,310,687	5/10/94	Bard et al.			
	AX	5,324,457	1/28/94	Zhang et al.			
<i>u</i>	AY	5,340,716	8/23/94	Ullman et al.			
<i>u</i>	AZ	5,418,171	5/23/95	Kimura et al.			

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u	AAA	5,466,416	11/14/95	Ghaed et al.			
↓	ABB	5,468,606	11/21/95	Bogart et al.			
↓	ACC	5,492,840	2/20/96	Malmgvist			
u	ADD	5,632,957	5/27/97	Heller et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
u	BA	WO 92/14139	8/20/92	WO				
u	BB	WO 96/06946	3/7/96	WO				
u	BC	WO 90/14221	11/29/90	WO				
u	BD	WO 90/05301	5/17/90	WO				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

u	CA		Abbott and Whitesides, 1994, "Potential-Dependent Wetting of Aqueous Solutions on Self-Assembled Monolayers Formed from 15-(ferrocenylcarbonyl) pentadecanethiol on Gold, <u>Langmuir</u> 10: 1493-1497.				
	CB		Abbott et al., 1992, "Manipulation of the Wettability of Surfaces on the 0.1 - to 1- μ m Scale Through Micromatching and Molecular Self-Assembly", <u>Science</u> 257: 1380-1382.				
	CB		Abbott et al., 1994, "Using Micromachining, Molecular Self-Assembly, and Wet Etching to Fabricate 0.1- μ m-Scale Structures of Gold and Silicon", <u>Chemistry of Materials</u> 6: 596-602.				
	CC		Adalsteinsson et al., 1979, "Preparation and Magnetic Filtration of Polyacrylamide Gels Containing Covalently Immobilized Proteins and a Ferrofluid <u>J. Mol. Catal.</u> 6: 199-225.				
	CD		Bain and Whitesides, 1989, "Modeling Organic Surfaces with Self-Assembled Monolayers", <u>Angew. Chem.</u> 101: 522-528.				
X	CE		Bains, 1992, "Setting a Sequence to Sequence a Sequence", <u>Bio/Technology</u> 10: 757-758.				
u	CF		Chaudhury and Whitesides, 1992, "How to Make Water Run Uphill", <u>Science</u> 256: 1539-1541.				

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CG	Chaudhury and Whitesides, 1992, "Correlation between Surface Free Energy and Surface Constitution", <u>Science</u> <u>255</u> : 1230-1232.
CH	Deaver, D.R., 1995, "A New Non-Isotopic Detection System for Immunoassay", <u>Nature</u> <u>377</u> : 758-760.
CI	DiMillia et al., 1994, "Wetting and Protein Adsorption of Self-Assembled (sic) Monolayers of Alkanethiolates Supported on Transparent Films of Gold," <u>Journal of the American Chemical Society</u> <u>116</u> : 2225-2226.
CJ	Dresselhaus, M.S.; Dresselhaus, G.; Eklund, P.C.; "Science of Fullerines and Carbon Nanotubes", Academic Press, San Diego, CA 1996
CK	Ferguson et al., 1993, "Monolayers on Disordered Substrates: Self-Assembly of Alkyldichlorosilanes on Surface-Modified Polyethylene and Polydimethylsiloxane", <u>Macromolecules</u> <u>26</u> : 5870-5875.
CL	Ferguson et al., 1991, "Contact Adhesion of Thin Gold Films on Elastomeric Supports: Cold Welding Under Ambient Conditions", <u>Science</u> <u>253</u> : 776-778.
CM	Gershon & Khilko, 1995, "Stable Chelating Linkage for Reversible Immobilization of Oligohistidine Tagged Proteins in the Biacore Surface Plasmon Resonance Detector", <u>J. of Immunol. Methods</u> : 65-76.
CN	Haapakka, 1982, "The Mechanism of the Cobalt(II)-Catalyzed Electrogenenerated Chemiluminescence of Luminol in Aqueous Alkaline Solution", <u>Anal. Chim Acta</u> <u>141</u> :263-268.
CO	Haneko, 1987, Liquid Crystal TV Displays, Principles & Applications of Liquid Crystal Displays, KTK Scientific Publishers, Tokyo, D. Reidel Publishing.
CP	Hickman et al., 1991, "Molecular Self-Assembly of Two-Terminal Voltametric Microsensors with Internal References", <u>Science</u> <u>252</u> : 688-691.
CQ	Hydrogels in Medicine and Pharmacy, Vol. I-III; Peppas, N.A. Edition, CRC Press, Boca Raton, Florida, 1987.
CR	Itaya & Bard, 1978, "Chemically Modified Polymer Electrodes: Synthetic Approach Employing Poly(methacryl chloride) Anchors", <u>Anal. Chem.</u> <u>50</u> (11): 1487-1489.

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u	CS	Kaneko, 1987, <u>Liquid Crystal TV Displays: Principles and Applicants of Liquid Crystal Displays</u> (KTK Scientific Publishers, Tokyo; D. Reidel Publishing Company, Dordrecht) Chapter 2: 3-32.
	CT	Kim et al., 1995, "Polymer Microstructures Formed by Moulding in Capillaries", <u>Nature</u> 376: 581-584.
	CU	Knight et al., 1994, "Occurrence, Mechanisms and Analytical Applications of Electrogenenerated Chemiluminescence", <u>Analyst</u> 119: 879-890.
	CV	Kumar and Whitesides, 1993, "Features of gold having micrometer to centimeter dimensions can be formed through a combination of stamping with an elastomeric stamp and an alkanethiol 'ink' followed by chemical etching", <u>Appl. Phys. Lett.</u> 63: 2002-2004.
	CW	Kumar et al., 1994, "Patterning Self-Assembled Monolayers: Applications in Materials Science", <u>Langmuir</u> 10: 1498-1511.
	CX	Laibinis et al., 1989, "Orthogonal Self-Assembled Monolayers: Alkanethiols on Gold and Alkane Carboxylic Acids on Alumina", <u>Science</u> 245: 845-847.
	CY	Leland and Powell, 1990, "Electrogenenerated Chemiluminescence: An Oxidative-Reduction Type ECL Reaction Sequence Using Tripropyl Amine", <u>J. Electrochem. Soc.</u> 137: 3127-3131.
	CZ	Martin and Nieman, 1993, "Glucose quantitation using an immobilized glucose dehydrogenase enzyme reactor and a tris(2,2'-bipyridyl) ruthenium (ii) chemiluminescent sensor" <u>Analytica Chimica Acta</u> 281: 475-481.
	CAA	"Methods in Enzymology, Immobilized Enzymes & Cells, Pt. B.," Morback, K. Ed., Elsevier Applied Science: London, 1988.
	CBB	Nielsen, P.E., 1995, "DNA Analogues With Nonphosphodiester Backbones", <u>Annu. Rev. Biophys. Biomol. Struct.</u> 24: 167-183.
	CCC	Obeng et al., 1991, "Electrogenenerated Chemiluminescence. 53. Electrochemistry and Emission from Adsorbed Monolayers of a Tris(bipyridyl)ruthenium(II)-Based Surfactant on Gold and Tin Oxide Electrodes", <u>Langmuir</u> 7: 195-201
u	CDD	Olah et al., 1980, "Polymer Films on Electrodes. 4. Nafion-Coated Electrodes and Electrogenenerated Chemiluminescence of Surface-Attached Ru(bpy) ₃ ²⁺ ", <u>J. Am. Chem. Soc.</u> 102: 6641-6642.

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CEE	Pale-Grosdemange et al., 1991, "Formation of Self-Assembled Monolayers by Chemisorption of Derivatives of Oligo (ethylene Glycol) of Structure HS (CH ₂) ₁₁ (OCH ₂ CH ₂) _m OH on Gold" <u>Journal of the American Chemical Society</u> 113 : 12-20.
CFF	Pollack et al., 1980, "Enzyme Immobilization by Condensation Copolymerization into Cross-Linked Polyacrylamide Gels", <u>J. Am. Chem. Soc.</u> 102 (20): 6324-36.
CGG	Polyethylene glycol chemistry: Biotechnical & Biomedical Applications, Harris, T.M. Ed., 1992 Plinun Press
CHH	Prime and Whitesides, 1993, "Adsorption of Proteins Onto Surfaces Containing End-Attached Oligo (ethylene oxide): A Model System Using Self-Assembled Monolayers" <u>J. Amer. Chem. Soc.</u> 115 : 10714-721.
CII	Prime and Whitesides, 1991, "Self-Assembled Organic Monolayers; Model Systems for Studying Adsorption of Proteins at Surfaces", <u>Science</u> 252 : 1164-1167.
CJJ	Sassenfeld, 1990, "Engineering Proteins for Purification", <u>TIBTECH</u> 8 : 88-93.
CKK	Soane, D.S., Polymer Applications for Biotechnology: Soane, D.S. editor, Simon & Schuster, Englewood Cliffs, NJ
CLL	"Solid Phase Biochemistry: Analytical & Synethic Aspects" Souten, W.H., Ed., T. Wiley & Sons: NY, 1983.
CMM	Spinke et al., 1993, "Molecular Recognition at Self-Assembled Monolayers: Optimization of surface functionalization", <u>J. Chem. Phys.</u> 99 : 7012-7019.
CNN	Spinke et al., 1993, "Molecular Recognition at Self-Assembled Monolayers: The Construction of Multicomponent Multilayers", <u>Langmuir</u> 9 : 1821-1825.
COO	Strezoska et al., 1991, "DNA sequencing by hybridization: 100 bases read by a non-gel based method", <u>Proc. Natl. Acad. Sci. USA</u> 88 : 10089-10093.
CPP	Sundberg et al., 1995, "Spatially-Addressable Immobilization of Macromolecules on Solid Supports", <u>J. Am. Chem. Soc.</u> 117 : 12050-12057.

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u	CQQ		Tampion, J. and Tampion, M.D. "Immobilized Cells: Principles & Applications", Cambridge Univ. Press, NY 1987.
/	CRR		Wilber, et al., 1995, "Scanning Force Microscopies Can Image Patterned Self-Assembled Monolayers", <u>Langmuir</u> 11: 825-831.
	CSS	*	Xu et al., 1994, "Electrogenerated Chemiluminescence. 55. Emission from Adsorbed Ru(bpy) ₃ ²⁺ on Graphite, Platinum, and Gold", <u>Langmuir</u> 10: 2409-2414.
	CTT		Yang, H.J. et al., 1994, "Electrochemiluminescence: A New Diagnostic and Research Tool", <u>BioTechnology</u> 12: 193-194.
u a	CUU		Zhang et al., 1988, "Electrogenerated Chemiluminescent Emission from an Organized (L-B) Monolayer of a Ru(bpy) ₃ ²⁺ -Based Surfactant on Semiconductor and Metal Electrodes" <u>J. Phys. Chem.</u> 92: 5566-5569.

EXAMINER C. CL.	DATE CONSIDERED 9/25/99
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO-1449.PTO